

CONTENTS

	Page No.
CERTIFICATE	i
ACKNOWLEDGEMENT	ii
CONTENTS	iii-vi
LIST OF TABLES	vii-x
 CHAPTER I: CONCEPTUAL FRAMEWORK	 (1-39)
1.1.0 INTRODUCTION	1
1.2.0 MEANING AND DEFINITION OF VALUE	3
1.3.0 NATURE AND CLASSIFICATION OF VALUES	4
1.3.1 Personal Values	5
1.3.2 Social Values	5
1.3.3 Universal Values	5
1.3.4 Moral Values	6
1.3.5 Aesthetic Values	6
1.3.6 Spiritual Values	6
1.4.0 MEANING AND DIFINITION OF VALUE EDUCATION	6
1.5.0 NEED OF VALUE EDUCATION	7
1.6.0 COMMISSIONS AND COMMITTEES ON VALUE EDUCATION	9
1.7.0 VALUE DETERIORATION: PRESENT SCENARIO	11
1.8.0 STATUS OF VALUE EDUCATION AND ROLE OF SCHOOL	13
1.9.0 OBJECTIVES OF VALUE EDUCATION	14
1.10.0 SALIENT FEATURES OF VALUE EDUCATION	15
1.11.0 MEANING OF SCIENCE AND TECHNOLGY	17
1.12.0 NATURE OF SCIENCE AND TECHNOLOGY	17
1.13.0 OBJECTIVES OF TEACHING OF SCIENCE AND TECHNOLOGY	20
1.14.0 NEED OF SCIENCE AND TECHNOLOGY EDUCATION IN SCHOOL CURRICULUM	21
1.15.0 SCIENCE AND TECHNOLOGY EDUCATION IN INDIA	21
1.16.0 SCIENCE AND TECHNOLOGY AT SECONDARY LEVEL	23
1.17.0 PRESENT SCENARIO OF SCIENCE AND TECHNOLOGY TEACHING IN INDIA	24
1.18.0 VALUES AND SCIENCE AND TECHNOLOGY	25
1.19.0 NEED OF SCIENCE EDUCATION IN TEACHING OF SCIENCE AND TECHNOLOGY	26
1.20.0 METHODS OF TEACHING VALUES	27
1.21.0 THE INTEGRATED APPROACH	28
1.22.0 STEPS FOR VALUE INCULCATION USING INTEGRATED APPROACH	29
1.23.0 RATIONALE	30
1.24.0 RESEARCH QUESTIONS	32
1.25.0 STATEMENT OF THE PROBLEM	33
1.26.0 OBJECTIVES OF THE STUDY	33
1.27.0 HYPOTHESES	33
1.28.0 OPERATIONAL DEFINITIONS	37

	Page No.
1.29.0 EXPLANATION/DEFINITION OF THE TERMS USED	37
1.30.0 DELIMITATION OF THE STUDY	38
1.31.0 ORGANIZATION OF CHAPTERS	38
CHAPTER II: REVIEW OF RELATED LITERATURE	(40-71)
2.1.0 INTRODUCTION	40
2.2.0 REVIEW OF RELATED LITERATURE	40
2.2.1 Studies related to the Value Education	41
2.2.2 Studies related to the Science Education	58
2.3.0 IMPLICATIONS OF THE REVIEWS STUDIES FOR THE PRESENT STUDY	68
CHAPTER III: METHODOLOGY	(72-80)
3.1.0 INTRODUCTION	72
3.2.0 RESEARCH DESIGN	72
3.3.0 POPULATION	73
3.4.0 SAMPLE	73
3.5.0 TOOLS FOR DATA COLLECTION	73
3.6.0 DEVELOPMENT OF THE INTERVENTION PROGRAMME ON VALUE INTEGRATED SCIENCE TEACHING	76
3.7.0 IMPLEMENTATION OF INTERVENTION PROGRAMME	78
3.8.0 DATA COLLECTION	79
3.9.0 DATA ANALYSIS	80
CHAPTER IV: DATA ANALYSIS, MAJOR FINDINGS, DISCUSSION AND CONCLUSION	(81-142)
4.1.0 INTRODUCTION	81
4.2.0 EFFECTIVENESS OF THE INTERVENTION PROGRAMME ON INTEGRATED APPROACH FOR VALUE INCULCATION IN TEACHING SCIENCE	81
4.2.1 Value Conceptual Knowledge of the Value 'Co-operation' of Experimental and Control Group	82
4.2.2 Value Conceptual Knowledge of the Value 'Dignity of Labour' of Experimental and Control Group	84
4.2.3 Value Conceptual Knowledge of Value 'Equality' of Experimental and Control Group	86
4.2.4 Value Conceptual Knowledge of Value 'Team Work' of Experimental and Control Group	88
4.2.5 Value Conceptual Knowledge of Value 'Discipline' of Experimental and Control Group	90
4.2.6 Value Conceptual Knowledge of Value 'Determination' of Experimental and Control Group	92

	Page No.
4.2.7 Value Conceptual Knowledge of Value ‘Simplicity’ of Experimental and Control Group	94
4.2.8 Value Conceptual Knowledge of Value ‘Honesty’ of Experimental and Control Group	96
4.2.9 Value Conceptual Knowledge of Value ‘Common Goal’ of Experimental and Control Group	98
4.2.10 Value Conceptual Knowledge of value ‘Loyalty of Duty’ of Experimental and Control Group	100
4.2.11 Value Conceptual Knowledge of Experimental and Control Group in All the Values	102
4.2.12 Value Perception of Experimental and Control Group for the value ‘Cooperation’	104
4.2.13 Value Perception of Experimental and Control Group for the Value ‘Dignity of Labour’	106
4.2.14 Value Perception Score of Experimental and Control Group for the Value ‘Equality’	108
4.2.15 Value Perception of Experimental and Control Group for the Value ‘Team Work’	110
4.2.16 Value Perception of Experimental and Control Group for the Value ‘Discipline’	112
4.2.17 Value Perception Score of Experimental and Control Group for the Value ‘Determination’	114
4.2.18 Value Perception Score of Experimental and Control Group for the Value ‘Simplicity’	116
4.2.19 Value Perception Score of Experimental and Control Group for the Value ‘Honesty’	118
4.2.20 Value Perception Score of Experimental and Control Group for the Value ‘Common Goal’	120
4.2.21 Value Perception Score of Experimental and Control Group for the Value ‘Loyalty of Duty’	122
4.2.22 Value Perception Score of Experimental and Control Group for All the Ten Values	124
4.2.23 Overall Mean Post-Test Achievement of Experimental and Control Group in Science and Technology	126
4.3.0 EFFECTIVENESS OF THE DEVELOPED INTERVENTION PROGRAMME IN TERMS OF STUDENTS’ REACTIONS	127
4.4.0 OBSERVATIONS DURING THE EXPERIMENT	135
4.5.0 MAJOR FINDINGS OF THE STUDY	137
4.6.0 DISCUSSION	138
4.7.0 IMPLICATIONS OF THE PRESENT STUDY	140
4.8.0 CONCLUSION	141
CHAPTER V: SUMMARY	(143-164)
5.1.0 INTRODUCTION	143
5.2.0 RESEARCH QUESTIONS	146
5.3.0 STATEMENT OF PROBLEM	146

	Page No.
5.4.0 OBJECTIVES OF THE STUDY	146
5.5.0 OPERATIONAL DEFINITION OF THE TERMS USED	147
5.6.0 EXPLANATION OF THE TERMS USED	147
5.7.0 DELIMITATION OF THE STUDY	148
5.8.0 HYPOTHESES	148
5.9.0 RESEARCH DESIGN	152
5.10.0 POPULATION	152
5.11.0 SAMPLE	152
5.12.0 TOOLS FOR DATA COLLECTION	153
5.13.0 DEVELOPMENT OF INTERVENTION PROGRAMME	155
5.14.0 IMPLEMENTATION OF PROGRAMME	157
5.15.0 DATA COLLECTION	158
5.16.0 DATA ANALYSIS	159
5.17.0 MAJOR FINDINGS	159
5.18.0 OBSERVATIONS DURING THE EXPERIMENT	161
5.19.0 IMPLICATIONS OF THE PRESENT STUDY	162
5.20.0 CONCLUSION	163
5.21.0 SUGGESTIONS FOR FURTHER STUDY	164
BIBLIOGRAPHY	(165-171)
APPENDICES	(172-299)
APPENDIX I-X VALUE INTEGRATED LESSON PLANS	172-252
APPENDIX XI VALUE CONCEPTUAL KNOWLEDGE TEST	253-260
APPENDIX XII VALUE PERCEPTION TEST	261-273
APPENDIX XIII BLUE PRINT FOR ACHIEVEMENT TEST	274-274
APPENDIX XIV SCIENCE & TECHNOLOGY ACHIEVEMENT TEST	275-279
APPENDIX XV REACTION SCALE	280-282